

In the Claims

1-7. (cancelled)

8. (new) A tool for cutting machinery, comprising:

a replaceable cutting element having a supporting component with first converging contact surfaces and with a second contact surface on said supporting component, and having a machining component;

a holder having a first end with a fastening shank and a second end with a seat receiving said supporting component;

a fastening component for fastening said supporting component in said seat, said fastening component including a support area and an adjustment area relatively movable toward and away from one another for fastening or replacing said cutting element;

slots in said seat extending in a direction of said fastening shank to form said support area and said adjustment area and to allow elastic relative movement therebetween, one side of said slots communicating with an exterior;

support surfaces on said support area converging toward one another and engageable with said first contact surfaces, said support surfaces and said first contact surfaces being correspondingly convergent;

an adjustment surface on said adjustment area extending transversely to said support surfaces and engageable with said second contact surface; and

a fastening sleeve having internal threading screwed on external threading on said holder and having a clamping surface narrowing and converging toward said machining component, said external threading communicating with said slot, said clamping surface interacting with a corresponding narrowing circumferential surface of said seat through which said slots extend to move said support area and said adjustment area toward one another to clamp said supporting component therebetween.

9. (new) A tool according to claim 8 wherein

said machining component is a drill rod.

10. (new) A tool according to claim 8 wherein

said adjustment area comprises an interior surface facing said supporting component and being crowned to form a convex clamping surface in a longitudinal direction thereof.

11. (new) A tool according to claim 8 wherein

said fastening sleeve comprises a central area resting on said external threading via said internal threading and on a front external circumferential surface of said seat and a front area of said holder at free ends of said fastening sleeve.

12. (new) A tool according to claim 8 wherein

said adjustment surface is curved and concave; and

said second contact surface is curved, is more greatly curved convexly than said adjustment surface, and is engaged by said adjustment surface.

13. (new) A tool according to claim 8 wherein

said support surfaces are connected along adjacent edges thereof by a connecting area, said connecting area having a wall thickness less than wall thicknesses of said support surfaces.

14. (new) A tool according to claim 8 wherein

said seat in cross section has two-thirds formed by said support area and one-third formed by said adjustment area.

15. (new) A tool for cutting machinery, comprising:

a replaceable cutting element having a supporting component with first converging contact surfaces and with a second contact surface on said supporting component, and having a machining component;

a holder having a first end with a fastening shank and a second end with a seat receiving said supporting component;

a fastening component for fastening said supporting component in said seat, said fastening component including a support area and an adjustment area relatively movable toward and away from one another for fastening or replacing said cutting element;

slots in said seat extending in a direction of said fastening shank to form said support area and said adjustment area and to allow elastic relative movement therebetween, one side of said slots communicating with an exterior;

support surfaces on said support area converging toward one another and engageable with said first contact surfaces, said support surfaces and said first contact surfaces being correspondingly convergent;

an adjustment surface on said adjustment area extending transversely to said support surfaces and engageable with said second contact surface; and

a fastening sleeve having internal threading screwed on external threading on said holder, said external threading communicating with said slot, said fastening sleeve including a central area resting on said external threading via said internal threading and on a front external circumferential surface of said seat and a front area of said holder at free ends of said fastening sleeve.

16. (new) A tool according to claim 15 wherein

said front external circumferential surface, said external threading and a front area of said holder are separated from each other in an axial direction by annular recesses.

17. (new) A tool according to claim 15 wherein

said adjustment surface is curved and concave; and

said second contact surface is curved, is more greatly curved convexly than said adjustment surface, and is engaged by said adjustment surface.

18. (new) A tool according to claim 15 wherein

said support surfaces are connected along adjacent edges thereof by a connecting area, said connecting area having a wall thickness less than wall thicknesses of said support surfaces.

19. (new) A tool according to claim 15 wherein

said seat in cross section has two-thirds formed by said support area and one-third formed by said adjustment area.

20. (new) A tool for cutting machinery, comprising:

a replaceable cutting element having a supporting component with first converging contact surfaces and with a second contact surface on said supporting component, and having a machining component;

a holder having a first end with a fastening shank and a second end with a seat receiving said supporting component;

a fastening component for fastening said supporting component in said seat, said fastening component including a support area and an adjustment area relatively movable toward and away from one another for fastening or replacing said cutting element;

slots in said seat extending in a direction of said fastening shank to form said support area and said adjustment area and to allow elastic relative movement therebetween, one side of said slots communicating with an exterior;

support surfaces on said support area converging toward one another and engageable with said first contact surfaces, said support surfaces and said first contact surfaces being correspondingly convergent;

a curved and concave adjustment surface on said adjustment area extending transversely to said support surfaces and engageable with said second contact surface, said second contact surface being curved, being more greatly curved convexly than said adjustment surface and being engaged by said adjustment surface; and

a fastening sleeve having internal threading screwed on external threading on said holder, said external threading communicating with said slot.

21. (new) A tool according to claim 20 wherein

said support surfaces are connected along adjacent edges thereof by a connecting area, said connecting area having a wall thickness less than wall thicknesses of said support surfaces.

22. (new) A tool according to claim 20 wherein

said seat in cross section has two-thirds formed by said support area and one-third formed by said adjustment area.

23. (new) A tool for cutting machinery, comprising:

a replaceable cutting element having a supporting component with first converging contact surfaces and with a second contact surface on said supporting component, and having a machining component;

a holder having a first end with a fastening shank and a second end with a seat receiving said supporting component;

a fastening component for fastening said supporting component in said seat, said fastening component including a support area and an adjustment area relatively movable toward and away from one another for fastening or replacing said cutting element;

slots in said seat extending in a direction of said fastening shank to form said support area and said adjustment area and to allow elastic relative movement therebetween, one side of said slots communicating with an exterior;

support surfaces on said support area converging toward one another and engageable with said first contact surfaces, said support surfaces and said first contact surfaces being correspondingly convergent, said support surfaces being connected along adjacent edges thereof by a connecting area, said connecting area having a wall thicknesses less than wall thicknesses of said support surfaces;

an adjustment surface on said adjustment area extending transversely to said support surfaces and engageable with said second contact surface; and

a fastening sleeve having internal threading screwed on external threading on said holder, said external threading communicating with said slot.

24. (new) A tool according to claim 23 wherein

said seat in cross section has two-thirds formed by said support area and one-third formed by said adjustment area.

25. (new) A tool for cutting machinery, comprising:

a replaceable cutting element having a supporting component with first converging contact surfaces and with a second contact surface on said supporting component, and having a machining component;

a holder having a first end with a fastening shank and a second end with a seat receiving said supporting component;

a fastening component for fastening said supporting component in said seat, said fastening component including a support area and an adjustment area relatively movable toward and away from one another for fastening or replacing said cutting element, said seat in cross section having two-thirds formed by said support area and one-third formed by said adjustment area;

slots in said seat extending in a direction of said fastening shank to form said support area and said adjustment area and to allow elastic relative movement therebetween, one side of said slots communicating with an exterior;

support surfaces on said support area converging toward one another and engageable with said first contact surfaces, said support surfaces and said first contact surfaces being correspondingly convergent;

an adjustment surface on said adjustment area extending transversely to said support surfaces and engageable with said second contact surface; and

a fastening sleeve having internal threading screwed on external threading on said holder, said external threading communicating with said slot.